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SECURITY INFORMATION

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REPORT

INTELLIGENCE 29

INFORMATION REPORT

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SUPPLEM REPORT

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reports on NII-380 in Leningrad,

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Attachment 1

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1. Electric current supply to NII-380

(a) Scientific Research Institute 380 (NII-380) was supplied with 220 and 380 v, 3-phase, 50-cycle AC current.

(b) Variations of voltage were considerable - from 180-240 v. This naturally led to great difficulties in the work of NII-380. Bulbs would sometimes even burst from excess voltage. The periodicity of the current varied too, from 42-60 c.p.s. The sinus forms, however, were not much distorted by this. As a result of all these variations, magnetic voltage stabilisers had to be used for special apparatus being employed in important research.

(c) Complete power cuts took place sometimes in NII-380. In Summer these averaged perhaps one a month but in Winter two or three a week. These cuts could last anything from a half to a whole day. The cuts were made by a responsible member of NII-380, according to how NII-380's quota was running. These power-cuts brought the work of the Institute to a stand-still.

2. Construction of bolometer principle thermometers in NII-380

(a) These thermometers, which were developed particularly by Ritter THOM, measured temperatures (under thermo-chamber conditions (in Kühl- u. Heizschränken)) from -70 to + 70° C. They also served in the compensation of circuit temperature constants and for measurement of the temperature of HF control units.

(b) The exterior dimensions of these instruments were about: width 35 cms, height and depth 25 cms. The thermometers consisted essentially of a measuring bridge with a DC amplifier with about 3 stages and a galvanometer. Stabilisation of the DC was achieved in multiple fashion by electron tubes. This stabilisation entailed the greatest difficulties and work on this problem went on for nearly a year.

(c) The measuring flat coils (Flachspule) were 12 mm wide and about 40-50 mm long. The production of this coil with a double wire was THOM's special secret. After his death the Russians could not proceed with the work.

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Attachment 1

(d) Some indication of the sensitivity of these instruments was given by the fact that touching the coils with the finger tip caused a full deflection.

(e) It was only known to the Germans in NII-380 that these thermometers were not for use in NII-380 itself.

3. Construction of an aircraft TV transmitter

(a) At the end of 1948, ZAKHAROV of NII-380 gave the head of laboratory 117 of NII-380, RYABOV, the task of developing a television transmitter for use in aircraft (Flugzeugfernsehsender).

(b) This task was known under the code name of MAGNIJ.

(c) ZAKHAROV was head of a laboratory in the Radar Department of NII-380 and at the same time lectured in the LENINGRAD AVIOLOKATSIONNYJ INSTITUT.

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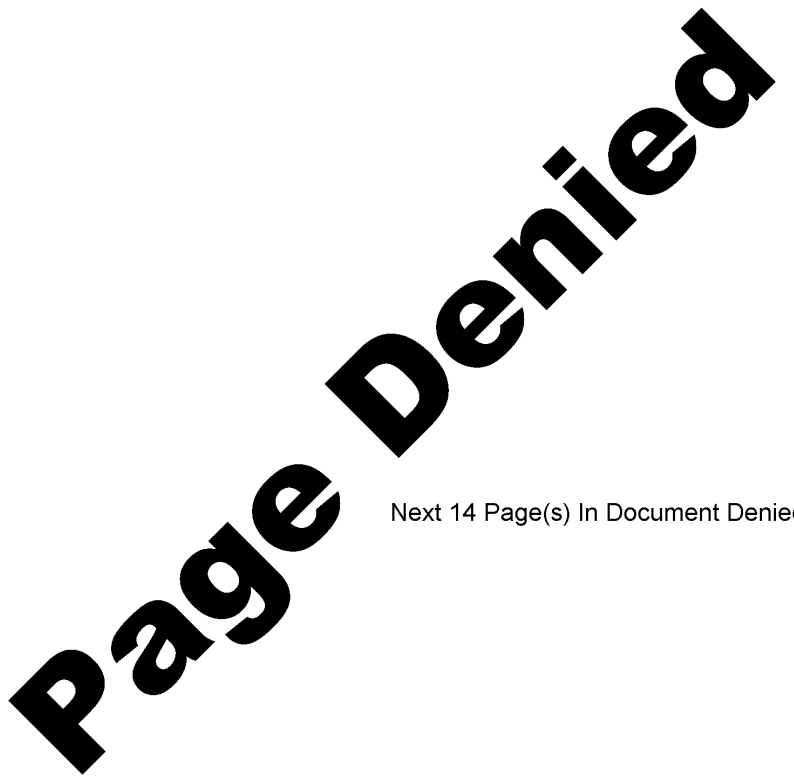

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